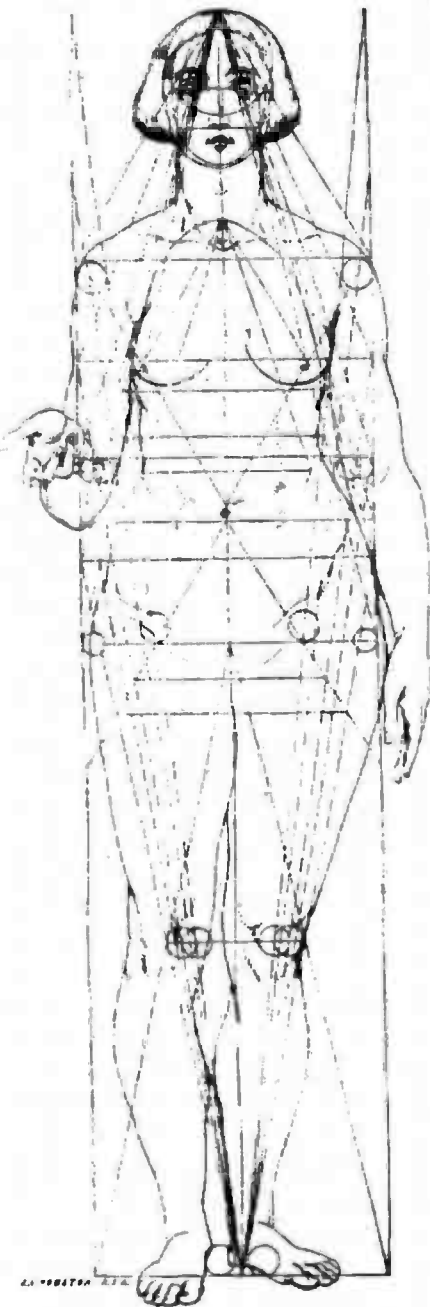


Through this point, and through all the other points of intersection which the indefinite vertical line makes with the other lines, he draws horizontal lines cutting the original line of height. This, with a repetition of the angles $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$, forms the principal part of the diagram, and gives all the required proportions.

This is a diagram of the front view of a figure drawn from nature and tested by the theory.



When a form characterised by that massive strength and masculine power which the ancient Greeks gave to the proportions of their representations of Hercules is to be constructed, all the change Mr. Hay requires to make upon his diagram is the adoption of an angle of $\frac{1}{2}$ the semicircle, instead of a right angle, as his fundamental angle; and this he considers the greatest extreme in this direction, and states that all the numerous varieties of proportion which are exhibited in the statues of ancient Grecian deities will arise from the adoption of one or other of the numerous intermediate angles that lie between 90° and 108° as a fundamental angle.

Without being able to satisfy ourselves as to the value of Mr. Hay's theory, we fully admit the importance of such inquiries, and the thanks that are due to our author for the perseverance and ability with which he is pursuing them.

NOTES IN THE PROVINCES.

ALLSANDY Church, which has been closed upwards of two years, was to be re-opened for divine service on Sunday last, although the fittings are not yet completed. The new clustered columns supporting the tower are of Derbyshire stone, and all the columns supporting the nave are placed in their proper positions. The nave is all new oak, worked according to the original patterns. The corbels represent angels supporting a scroll.—The guardians of the Leicester Union have accepted a tender to light the workhouse with gas for the first time, for ten years, at 2s. 9d. per 1,000 cubic feet.—A gas company is about to be established at Dodington.—Some members of Sir Walter Farquhar's family have caused a memorial window to be placed in the college chapel of Eton, to the memory of Mr. Farquhar, a young man educated at Eton, and killed at Albuera. The subject of the window is the story of King David. There are five compartments. The window has just been completed by Wales. An adjoining window to the above, subscribed for by old Exonians, and executed by Connor, has recently been presented to the college. These windows are at the western entrance to the chapel.—The inhabitants of Swindon have resolved to erect a market-house and town-hall at a cost not exceeding 1,200*l*. to be raised in shares of 5*l*. each. Shares to the amount of 515*l*. were at once taken.—Improvements, according to the *Maidstone Gazette*, are about to be made at Folkestone, Hythe, and Sandgate.—The proprietors of the gas-works of Gosport have reduced the price of gas to 6s. 6d. the 1,000 cubic feet, and 6d. for the use of meter.—An organ is being built by Mr. Nicholson, at Worcester, for St. Peter's Church there. Subscriptions, amounting to nearly 300*l*., were raised for the purpose in two months.—The contract for the pipes for the Wolverhampton Water-works Extension, has been taken by Messrs. Cochrane and Co., of Woodside Iron-works, near Dudley, who have lately supplied the greater portion of the cast-iron work required in the Great Exhibition building. The pipes are to be cast with improved sockets. The contract for the pipe laying has been taken by Mr. F. H. Winwood, of Snowhill, and the contract for the cocks by Mr. Edward Blake-moor, of Wednesbury, brassfounder.—The Bilston Streets and Sewers Committee have recommended to the Improvement Commissioners that the tender of Mr. R. C. Hemberow, of Wolverhampton, be accepted, for the diversion and covering of a nuisance called the Bilston Brook. The contract has been undertaken within the estimate of Mr. Marten, the engineer.—The foundation-stone of the new parish church of St. Luke, at Bilston, was to be laid on Easter Tuesday by Viscount Lewisham, M.P.—A rate of a penny in the pound is to be devoted at Monmouth to the formation of a new cemetery near the Monnow Mills.—A sum of 10,000*l*. is to be devoted to extending and altering the House of Correction at Kautsford, and building a new prison for females.—The plans of Mr. George Latham, of Waterloo, architect, have been accepted for the new chapel about to be erected as an addition to the church at Blackpool. The other competitors were Mr. Cuffley, of Manchester, and Mr. C. Reed, of Liverpool.—Besides the new markets lately noticed, a series of other improvements are about to be made at Stockport. Several of the principal streets and the approaches thereto are so narrow, that lives have been sacrificed of late years; but important improvements are on the tapis, including the removal of the *Stockport Advertiser* office. Another improvement is the widening of Cheapside, from the Hillgate. A third is projected, and in part executed, in the widening of the Millgate, by taking down a range of property on the right hand side, and concealing the present disagreeing appearance of cottages, &c., in the burial-ground of St. Mary's Church.—The foundation-stone of Greenfield new Independent Chapel, Manningham, was to be laid on Easter Monday.—The extensive additional buildings for the enlargement of the North Riding prison at Northallerton, commenced in 1849, are now

finished, by which 140 additional new cells have been obtained, with a chapel, school-room, work-shops, with apartments for baking, cooking, washing, &c. Many who have seen it compare it to a fortress without, but to a palace within, each cell having both hard and soft water conveyed into it by pipes, and every other convenience. During the erection of the buildings a number of government convicts confined there and prisoners under sentence, were employed as labourers in the interior of the buildings, and, in addition to the prison diet, were supplied with ale, porter, beer, tobacco, &c., according to the nature of the work they had to perform.—Since the last session at Hull, the ventilation of the Court has been arranged by Mr. Wm. Clarke, C. E., of the firm of Hann, Clarke, and Mackinson, of London. The vitiated air is withdrawn almost entirely, at the level of the floor, and fresh air admitted at a high level, contrary to the usual practice. Sufficient power, it is said, is obtained, by means of steam jets, to withdraw 4,000 cubic feet of air per minute from below, whilst a regulated quantity escapes through self-acting valves placed above the ceiling. The fresh air is admitted at the tops of the windows through apertures which give it an upward direction so as to avoid the effects of cool currents. The former hot-water pipes are now adapted to steam heating.—The Dock Company at Hull, have decided on the application of steam power to the 30-ton crane, on the west side of the Humber Dock, and an engine is now in course of erection for that purpose. The crane has been almost constantly employed in hoisting loaded coal waggons from the quay, and swinging them over ships' hatches, to be discharged from the waggon in the usual way. The engine is of four-horse power, and is constructed with oscillating cylinder. The crane, it is calculated, will load 600 tons of coal in a day. The engine has been constructed by the Messrs. Erle, of the Junction Foundry, Hull, in conjunction with Mr. Welsh, the engineer of the Dock Company.—It is proposed to convey the water of the river Eke, to the amount of 400,000 gallons daily, from a point above Benson's-bridge, about 9 miles from Whitby, to a reservoir near that town, and thence to distribute it to Whitby, where required. The pipe will be carried across the river at various points, and beneath the harbour at Spring-bridge.—The contract for constructing the tidal channel and the half-tidal basin for the south or sea entrance of Sunderland Dock has been let to Messrs. Pawson and Dyson, of Leeds (Person and Dryson one authority gives it), late contractors on the Leeds and Thirsk Railway, for 51,500*l*. The highest tender was 63,000*l*. The engineer's estimate was 60,000*l*. The contractors are preparing to commence immediately with the works.—On Thursday week, at Sunderland, a supper was given by Mr. A. J. Moore to the workmen engaged in the erection of "St. Bede's Tower," on the covering in of that building.—According to the *Shields Gazette*, the project for an extensive wet dock of forty acres, or thereabouts, with an entrance at or near the old Poor House, high end of South Shields, is progressing favourably.—A monument is about to be erected at Edinburgh, to the memory of Robert Gilfillan, a poet of the Burns type, well known in that quarter of the country.—Plans for erection of a new hall for St. Andrew's Lodge of Freemasons, Banff, have been decided on—those furnished by Messrs. McKenzie and Matthews, Elgin, have been selected. The building, as designed, will be in the Palladian Italian style. It is to front Castle-Street. On each side of the entrance there will be two pilasters of the Roman Doric order, rising, each pair, from one pedestal, and surmounted by an entablature of same order. The windows on the ground floor, of which there will be four, are also to be supported on each side with Doric pilasters. The windows in the second floor, also four in number, will be supported by pilasters of the Ionic order. A row of balusters will appear beneath each of the upper floor windows. The ground floor is to be occupied as shops.—At the Town Hall,